

661FX-MLV 661FX-MLVE

Rev. C+

System Board User's Manual
Carte Mère Manuel Pour Utilisateur
System-Platine Benutzerhandbuch
Manual del Usuario de Placas Base
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935-661FX3-000
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Caution

To avoid damage to the system:

- Use the correct AC input voltage range.

To reduce the risk of electric shock:

- Unplug the power cord before removing the system chassis cover for installation or servicing. After installation or servicing, cover the system chassis before plugging the power cord.

Battery:

- Danger of explosion if battery incorrectly replaced.
- Replace only with the same or equivalent type recommend by the manufacturer.
- Dispose of used batteries according to the battery manufacturer's instructions.

FCC and DOC Statement on Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

Notice:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables must be used in order to comply with the emission limits.

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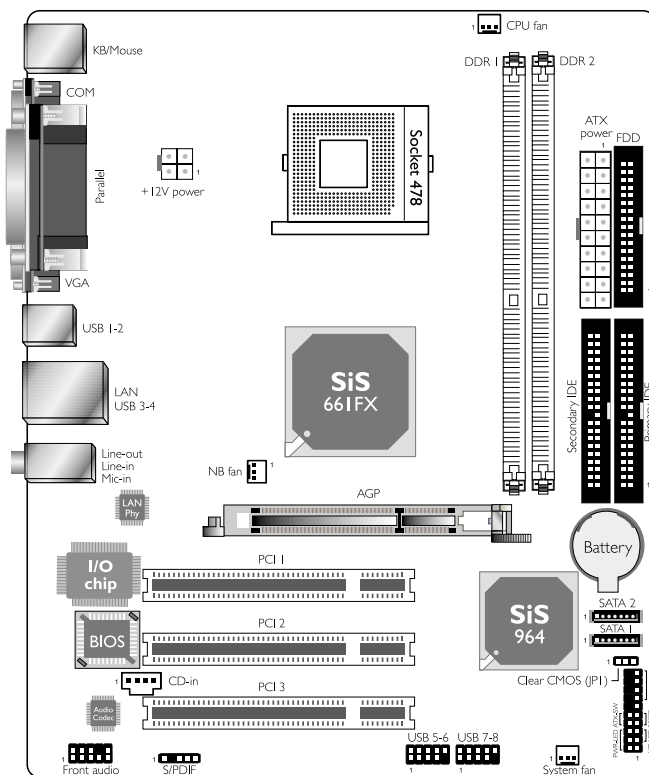
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Chapter 1 - Quick Setup Guide

1.1 System Board Layout



The 661FX-MLV system board (shown above) is equipped with SATA connectors. 661FX-MLVE does not support SATA. The illustrations on the following pages are based on the system board that supports SATA.

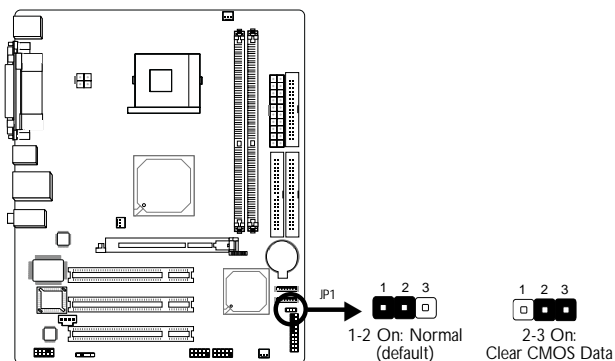
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Quick Setup Guide

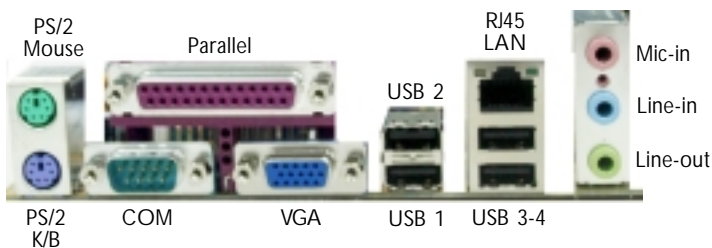
Quick Setup Guide

1.2 Jumper

1.2.1 Clear CMOS Data

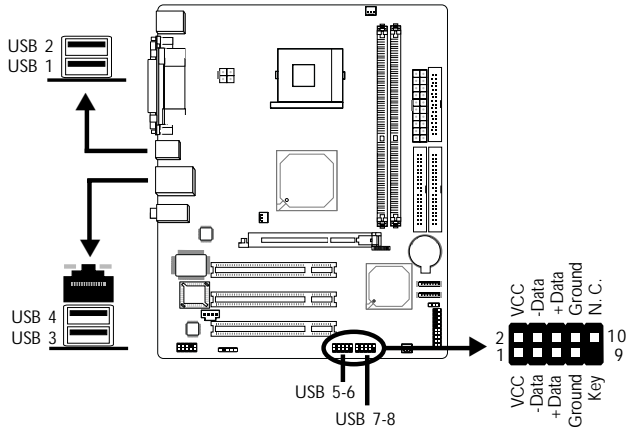


1.3 Rear Panel I/O Ports

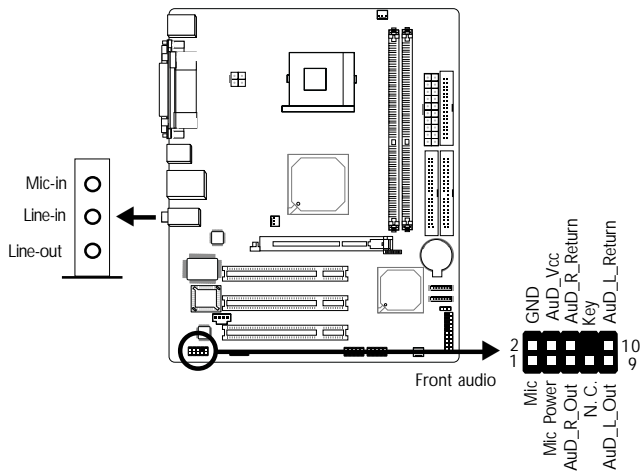


1.4 I/O Connectors

1.4.1 Universal Serial Bus Ports



1.4.2 Audio

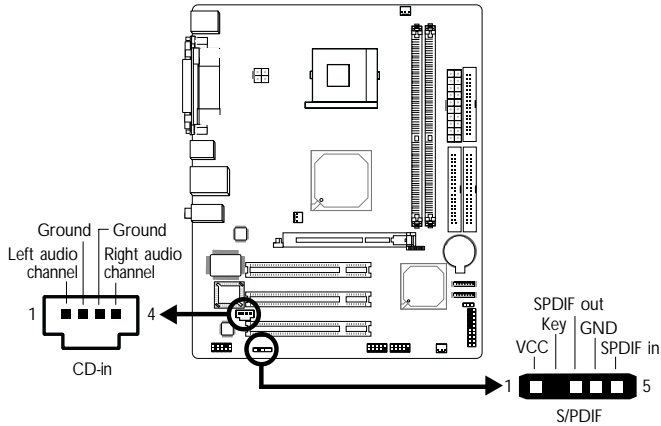


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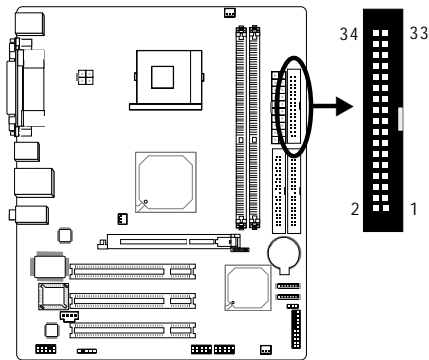
Quick Setup Guide

Quick Setup Guide

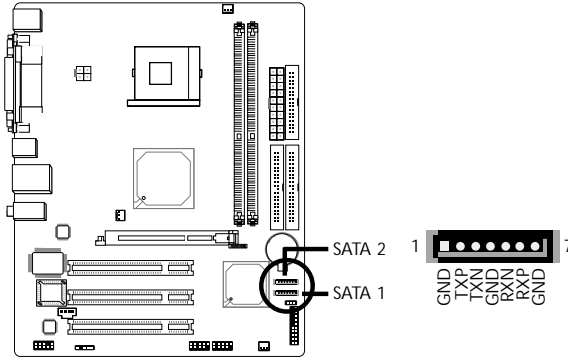
1.4.3 CD-in and S/PDIF Connectors



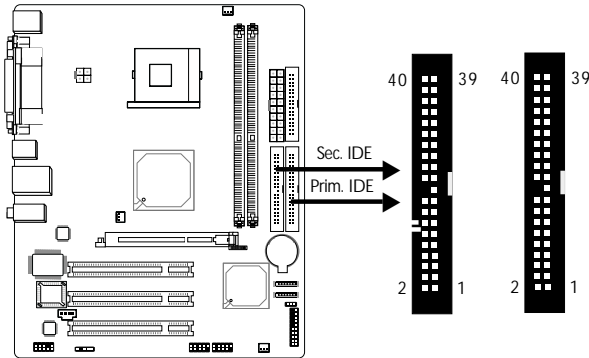
1.4.4 Floppy Disk Drive Connector



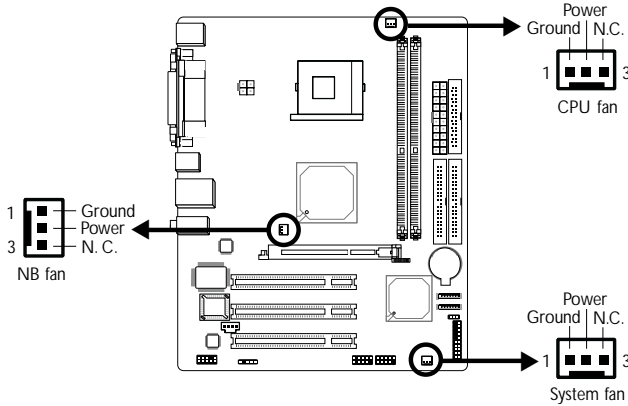
1.4.5 SATA Connectors (661FX-MLV only)



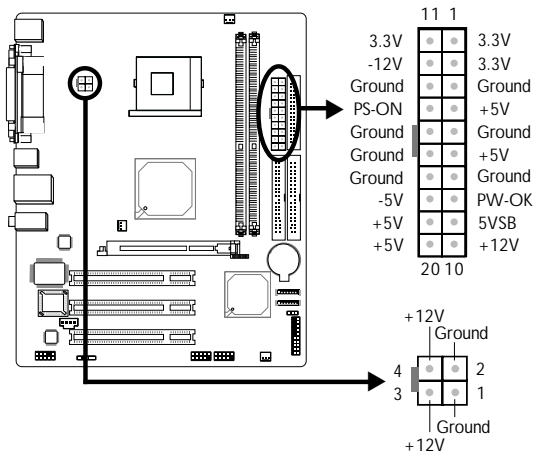
1.4.6 IDE Disk Drive Connectors



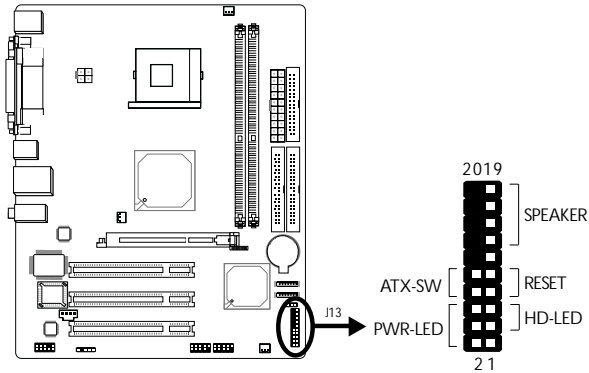
1.4.7 Cooling Fan Connectors



1.4.8 Power Connectors



1.4.9 Front Panel Connectors



	Pin	Pin Assignment
HD-LED (Primary/Secondary IDE LED)	3 5	HDD LED Power HDD
Reserved	14 16	N. C. N. C.
ATX-SW (ATX power switch)	8 10	PWRBTT+ PWRBTT-
Reserved	18 20	N. C. N. C.
RESET (Reset switch)	7 9	Ground H/W Reset
SPEAKER (Speaker connector)	13 15 17 19	Speaker Data N. C. Ground Speaker Power
PWR-LED (Power/Standby LED)	2 4 6	LED Power (+) LED Power (+) LED Power (-) or Standby Signal

Chapter 2 - English

2.1 Features and Specifications

Processor

- Intel® Pentium® 4 (Prescott and Northwood) processor up to 3.06GHz
 - Intel Hyper-Threading Technology
 - FSB: 533MHz and 800MHz
- Intel® Celeron® processor
 - 400MHz system data bus

Chipset

- SiS® chipset
 - North bridge: SiS® 661FX
 - South bridge: SiS® 964

System Memory

- Two 184-pin DDR DIMM sockets
- Supports 4 banks up to 2GB using PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) and PC3200 (DDR400) unbuffered DDR SDRAM DIMM, 2.6V type
- 16Mb, 64Mb, 128Mb, 256Mb and 512Mb SDRAM technology with page size from 2KB up to 16KB

BIOS

- Award BIOS, Windows® 98SE/2000/ME/XP Plug and Play compatible
- Supports SCSI sequential boot-up
- Flash EPROM for easy BIOS upgrades
- Supports DMI 2.0 function
- 2Mbit flash memory

Energy Efficient Design

- ACPI STR (Suspend to RAM) function
- Wake-On-PS/2 Keyboard/Mouse
- Wake-On-USB Keyboard/Mouse

- Wake-On-Ring (external modem)
- Wake-On-LAN
- RTC timer to power-on the system
- AC power failure recovery

Onboard Graphics Features

- Bi-directional 16-bit data bus
- Performs 1GB/s bandwidth in 133MHz x 4 mode
- 3D graphics accelerator
 - Built-in high performance 256-bit 3D engine
 - Supports Ultra-AGP™ up to 2.7GB/s bandwidth
 - Up to 166MHz 3D engine clock speed
- 2D graphics accelerator
 - Built-in hardware command queue
 - Supports memory-mapped, zero wait-state, burst engine write
 - Maximum 128MB frame buffer with linear addressing

Onboard Audio Features

- AC'97 2.2 extension compliant codec
- Supports Microsoft® DirectSound/DirectSound 3D
- AC'97 supported with full duplex, independent sample rate converter for audio recording and playback
- S/PDIF-in/out interface
- 6-channel audio output

Onboard LAN Features

- Phy fast ethernet controller
- Integrated IEEE 802.3, 10BASE-T and 100BASE-TX compatible PHY
- 32-bit PCI master interface
- Integrated power management functions
- Full duplex support at both 10 and 100 Mbps
- Supports IEEE 802.3u auto-negotiation
- Supports wire for management

SATA IDE Interface with RAID (661FX-MLV only)

- Supports two SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification (1.5Gbps interface)
- Supports RAID 0, RAID 1 and JBOD

PCI Bus Master IDE Controller

- Supports ATA/33, ATA/66, ATA/100 and ATA/133 hard drives
- UDMA Modes 3, 4, 5 and 6 Enhanced IDE (data transfer rate up to 133MB/sec.)
- Bus mastering reduces CPU utilization during disk transfer
- Supports ATAPI CD-ROM, LS-120 and ZIP

Processor Socket

- Socket 478

AGP (Accelerated Graphics Port)

- Supports AGP 8x up to 2132MB/sec. and AGP 4x up to 1066MB/sec. bandwidth for 3D graphics applications

Rear Panel I/O Ports (PC 99 color-coded connectors)

- 4 USB 2.0/1.1 ports
- 1 RJ45 LAN port
- 1 DB-9 serial port
- 1 DB-15 VGA port
- 1 DB-25 parallel port
- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 3 audio jacks: line-out, line-in and mic-in

I/O Connectors

- 2 connectors for 4 additional external USB 2.0/1.1 ports
- 1 front audio connector for external line-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 S/PDIF-in/out connector
- 2 SATA connectors (661FX-MLV only)
- 2 IDE connectors
- 1 floppy drive connector

- 2 ATX power supply connectors
- CPU fan and chassis fan connectors

Expansion Slots

- 1 AGP slot
- 3 PCI slots

PCB

- 4 layers, microATX form factor
- 24.4cm (9.6") x 20cm (7.87")

2.2 Package Checklist

The system board package contains the following items:

- ☒ The system board
- ☒ A user's manual
- ☒ One SATA cable (661FX-MLV only)
- ☒ One IDE cable for ATA/33/66/100/133 IDE drives
- ☒ One 34-pin floppy disk drive cable
- ☒ One SATA RAID floppy diskette (661FX-MLV only)
- ☒ One "Mainboard Utility" CD

If any of these items are missing or damaged, please contact your dealer or sales representative for assistance.

Chapter 3 - Français

3.1 Caractéristiques et Spécifications

Processeur

- Les processeurs Intel® Pentium® 4 (Prescott et Northwood) supporte jusqu'à 3.06GHz
 - Intel Technologie Hyper-Threading
 - FSB: 533MHz et 800MHz
- Processeur Intel® Celeron®
 - 400MHz vitesse du bus

Chipset

- SiS® chipset
 - Pont Nord: SiS® 661FX
 - Pont Sud: SiS® 964

Mémoire Système

- 2 sockets DDR DIMM 184 broches
- Supporte 4 bancs de mémoire jusqu'à 2GB en utilisant les modules PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) et PC3200 (DDR400) non-tamponnés. DDR SDRAM DIMM, type 2.6V
- Technologie SDRAM 16Mb, 64Mb, 128Mb, 256Mb et 512Mb avec la page de 2KB à 16KB

BIOS

- Compatible avec Award BIOS, Windows® 98SE/2000/ME/XP Plug and Play
- Supporte l'amorçage séquentiel SCSI
- EPROM Flash pour une mise à niveau facile du BIOS
- Supporte la fonction DMI 2.0
- Mémoire Flash 2Mbit

Design à Haut Rendement Énergétique

- ACPI STR (Suspend to RAM) fonction
- Réveil-Sur-PS/2 Clavier/Souris

- Eveil Clavier/Souris USB
- Eveil Sonnerie
- Réveil Par Le Réseau
- Minuterie RTC pour allumer le système
- Récupération après Défaillance d'Alimentation CA

Fonctions Graphiques Intégrées

- Bus de données de 16 bits bi-directionnel
- Bande passante de 1GB/s dans le mode de 133MHz x 4
- Accélérateur graphique 3D
 - Moteur 3D 256 bits de haute performance intégré
 - Soutien de l'Ultra-AGP™ jusqu'à 2.7GB/s de bande passante
 - Jusqu'à 166MHz de vitesse d'horloge du moteur 3D
- Accélérateur graphique 2D
 - Queue de commandes intégrée
 - Soutien de la mémoire mappée, du moteur d'écriture rafale sans état d'attente
 - Tampon de trame maximal de 128MB à l'adressage linéaire

Caractéristiques Audio sur Carte

- Codec conforme à l'extension AC'97 2.2
- Supporte DirectSound de Microsoft® / DirectSound 3D de Microsoft®
- AC'97 supporté avec full duplex, convertisseur de vitesse d'échantillonnage indépendant pour enregistrement audio et lecture.
- Interface entrée/sortie S/PDIF
- Sortie audio 6-canaux

Fonctionnalités Onboard LAN

- Utilise le contrôleur Phy
- IEEE 802.3, 10BASE-T et 100BASE-TX intégrés compatibles PHY
- Interface maître PCI 32 bits
- Fonctions de gestion d'alimentation intégrées
- Support Full duplex à 10 et 100 Mbps
- Supporte l'auto négociation IEEE 802.3u
- Support câble pour la gestion

Interface SATA RAID IDE (661FX-MLV seulement)

- Supportant 2 interface SATA (Serial ATA) compatible avec la spécification SATA 1.0 (bande passante à 1.5Gbps)
- Supporte RAID 0, RAID 1 and JBOD

Contrôleur IDE de BUS Maître PCI

- Supporte des disques durs ATA/33, ATA/66, ATA/100 et ATA/133
- IDE Améliorés Mode 3, 4, 5 et 6 UDMA (vitesse de transfert de données allant jusqu'à 133Mo/sec.)
- La gestion de Bus réduit l'utilisation du CPU pendant les transferts sur disque
- Supporte les CD-ROM ATAPI, LS-120 et ZIP

Socket Processeur

- Socket 478

AGP (Accelerated Graphics Port)

- Supporte 8x AGP avec une bande passante allant jusqu'à 2132Mo/sec et 4x AGP avec une bande passante allant jusqu'à 1066Mo/sec pour les applications graphiques 3D

Le Panneau des Ports Entrée/Sortie en Arrière
(Connecteurs PC 99 avec codes couleur)

- 4 ports USB 2.0/1.1
- 1 port RJ45 LAN
- 1 port série DB-9
- 1 port VGA DB-15
- 1 port parallèle DB-25
- 1 port souris PS/2 mini-DIN-6
- 1 port clavier PS/2 mini-DIN-6
- 3 prises audio: ligne de sortie (line-out), ligne d'entrée (line-in) et entrée micro (mic-in)

Connecteurs Entrée/Sortie

- 2 connecteurs pour 4 ports USB 2.0/1.1 supplémentaires
- 1 connecteur audio de l'avant pour la sortie ligne et l'entrée micro
- 1 connecteur CD-in audio internes
- 1 connecteur entrée/sortie S/PDIF
- 2 connecteurs SATA (661FX-MLV seulement)
- 2 connecteurs IDE
- 1 connecteur de lecteur de disquettes
- 2 connecteurs d'alimentation ATX
- Connecteurs de ventilateurs de CPU et de châssis

Logements d'Extension

- 1 slot AGP
- 3 slots PCI

PCB

- 4 couches, facteur de forme microATX
- 24.4cm (9.6") x 20cm (7.87")

3.2 Liste de Vérification de l'Emballage

L'emballage de la carte système contient les éléments suivants:

- ☒ 1 carte système
- ☒ 1 manuel utilisateur
- ☒ 1 câble série ATA (661FX-MLV seulement)
- ☒ 1 câble IDE pour les lecteurs IDE ATA/33/66/100/133
- ☒ 1 câble 34 broches pour lecteur de disquette
- ☒ 1 disquette SATA RAID (661FX-MLV seulement)
- ☒ 1 CD "Mainboard Utility"

Si l'un de ces éléments n'était pas dans l'emballage ou s'il était endommagé, veuillez contacter votre revendeur ou votre représentant.

Chapter 4 - Deutsch

4.1 Leistungsmerkmale und Technische Daten

Prozessor

- Intel® Pentium® 4 (Prescott und Northwood) Prozessor von bis zu 3.06GHz
 - Intel Hyper-Threading Technologie
 - FSB: 533MHz und 800MHz
- Intel® Celeron® Prozessor
 - 400MHz Systemdatenbus

Chipsatz

- SiS® chipset
 - Nordbrücke: SiS® 661FX
 - Südbrücke: SiS® 964

Systemspeicher

- 2 184-Stift DDR DIMM Buchsen
- Hält 4 Datenbanken des Speichers bis 2GB durch die Moduln: PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) und PC3200 (DDR400) ohne Dämpfer DDR SDRAM DIMM, 2.6V-Typ
- 16Mb, 64Mb, 128Mb, 256Mb und 512Mb Technologie-SDRAM mit der Seite bis 2KB zu 16KB

BIOS

- Kompatibilität mit Award BIOS, Windows® 98SE/2000/ME/XP Plug and Play
- Unterstützung des sequentiellen SCSI-Ladens
- Flash EPROM für ein einfaches Aktualisieren des BIOS
- Unterstützung der DMI-2.0-Funktion
- Flash-Speicher (2Mbit)

Energomisches Design

- ACPI STR (Suspend to RAM) funktion
- Wecken bei Betätigung der PS/2 Tastatur/Maus

- Wecken bei USB-Tastatur/Maus
- Wecken bei Klingeln
- Wecken des Systems durch das Netzwerk
- RTC-Taktgeber zum Einschalten des Systems
- Wiederherstellung der Wechselstromversorgung nach einem Ausfall

Die Einbaufunktionen die Schaubilder

- Bi-richtender 16-bit Reifen
- Die Durchlaßfähigkeit ist 1GB/s im Regime 133MHz x 4
- Die graphische 3D-Beschnigung
 - Ein hochleistungsfähiger 256-bit 3D-Einbauschieber
 - Halt Ultra-AGPII™ mit der Durchlaßfähigkeit bis 2.7GB/s
 - Die Taktfrequenz des 3D-Schebers ist 166MHz
- Die graphische 2D-Beschnigung
 - Der einbauen Gerätebefehl
 - Hält der Mapped-Speicher, der Nullstillstand, der Schieber der Spitzenaufnahme
 - Der Maximaldämpfer des 128MB-Gstelles mit der Linienadressierung

Audiomerkmale auf Platine

- Codec für AC'97 2.2-Erweiterung
- Unterstützung der Microsoft DirectSound/DirectSound 3D
- AC'97 Unterstützung des Audiotreiber und Audiowiedergabe
- S/PDIF-In/Aus-Schnittstelle
- 6-Kanal-Audioausgang

Merkmale des LANs auf Platine

- Benutzung des Phy für die Fast-Ethernet-Verbindung
- Integrierter IEEE 802.3, 10BASE-T und 100BASE-TX kompatibler PHY
- 32-Bit-PCI-Master-Schnittstelle
- Integrierte Power-Management-Funktionen
- Vollduplex-Unterstützung bei 10 und 100 Mbps
- Unterstützung der IEEE-802.3u-Auto-Negotiation
- Unterstützung des Leiters für das Management

SATA RAID IDE Schnittstelle (Nur für 661FX-MLV)

- Unterstützt 2 SATA (Serielle ATA)-Schnittstelle, die mit SATA 1.0 Spezifikation (1.5Gigabits Schnittstelle) konform is
- RAID 0, RAID 1 und JBOD

PCI-Bus-Master-IDE-Controller

- Unterstützung der Festplatten ATA/33, ATA/66, ATA/100 und ATA/133
- Erweitertes IDE des UDMA-Modus 3, 4, 5 und 6 (Datenübertragungsgeschwindigkeit von bis zu 133MB/Sek.).
- Verminderte CPU-Benutzung während Diskettenübertragung dank dem Bus-Master
- Unterstützung des ATAPI CD-ROMs, LS-120 und ZIP

Prozessor Socket

- Buchse 478

AGP (Accelerated Graphics Port)

- Für die 3D-Grafikanwendungen unterstützt die universelle AGP-Steckfassung einen AGP 8x mit einer Bandweite von bis zu 2132MB/Sek. sowie einen AGP 4x mit einer Bandweite von bis zu 1066MB/Sek.

Ein-/Ausgabe-Porte an der Rückwand

(PC 99 mit farbkodierten Steckverbindungen)

- 4 USB 2.0/1.1-Anschlüsse
- 1 RJ45 LAN-Anschlüsse
- 1 serieller DB-9-Anschluß
- 1 VGA DB-15-Anschluß
- 1 DB-25-Parallelanschluß
- 1 Mini-DIN-6-Anschluß für eine PS/2-Maus
- 1 Mini-DIN-6-Anschluß für eine PS/2-Tastatur
- 3 Audio-Anschlußbuchsen: Ausgangsleitung, Eingangsleitung und Mikrofon-Eingang

Ein-/Ausgabe-Steckverbinder

- 2 Anschlußfassung für 4 zusätzliche externe USB 2.0/1.1-Anschlüsse
- 1 Frontaudioanschluß für die externe Ausgangsleitung und den Mikrofoneingang
- 1 CD-in interne Audioanschluß
- 1 S/PDIF-in/Aus-Steckverbinder
- 2 SATA-Anschlüsse (Nur für 661FX-MLV)
- 2 IDE-Anschlüsse
- 1 Floppy-Anschlüsse
- 2 Anschlußstecker für das ATX-Netzgerät
- CPU- und Chassis-ventilator-Anschlüsse

Erweiterungssteckfassungen

- 1 AGP-Einbauplätzen
- 3 PCI-Einbauplätzen

Die Druckplatte

- 4 Variationen, der Formfaktor microATX
- 24.4cm (9.6") x 20cm (7.87")

4.2 Verpackungsliste

In der Verpackung der Systemplatine sind folgende Artikel enthalten:

- ☒ 1 Systemplatine
- ☒ 1 Benutzerhandbuch
- ☒ 1 SATA-Kabel (Nur für 661FX-MLV)
- ☒ 1 IDE-Kabel
- ☒ 1 Floppy-Kabel
- ☒ 1 Diskette SATA RAID (Nur für 661FX-MLV)
- ☒ 1 CD mit "Mainboard Utility"

Fehlt einer dieser Artikel oder weist einer dieser Artikel Beschädigungen auf, wenden Sie sich an Ihren Händler oder Vertreter.

Chapter 5 - Español

5.1 Características y Especificaciones

Procesador

- Procesador Intel® Pentium® 4 (Prescott y Northwood) máximo de 3.06GHz
 - Intel Tecnología Hyper-Threading
 - FSB: 533MHz y 800MHz
- Procesador Intel® Celeron®
 - 400MHz canal de datos del sistema

Chipset

- SiS® chipset
 - Puente Norte: SiS® 661FX
 - Puente Sur: SiS® 964

Memoria de Sistema

- 2 enchufes de 184-terminales DDR SDRAM DIMM
- Soporta 4 bancos de memoria hasta 2GB usando los módulos PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) y PC3200 (DDR400) no de tope DDR SDRAM DIMM, de 2.6V tipo
- 16Mb, 64Mb, 128Mb, 256Mb y 512Mb SDRAM tecnología con página de 2KB hasta 16KB

BIOS

- Award BIOS, Windows® 98SE/2000/ME/XP Enchufar y Usar compatible
- Soporta el inicio de secuencia de SCSI
- Parpadea EPROM para fácil actualización de BIOS
- Soporta la función de DMI 2.0
- Memoria Instante (2Mbitios)

Diseño Energía Eficiente

- ACPI STR (Suspend to RAM) función
- PS/2 Teclado/Ratón de Wake-On

- Teclado/Ratón de Wake-On-USB
- Wake-On-Ring (external modem)
- Wake-On-LAN
- Temporizador de RTC para encender el sistema
- Recuperación de Fracaso de Energía AC

Funciones Incorporadas de Gráfica

- La barra bi-direccionada de 16 bit
- Capacidad de información 1GB/s en formato de 133MHz x 4
- Acelerador gráfico 3D
 - El motor 3D incorporado de gran efectividad de 256 bit
 - Soporta Ultra-AGPII™ con capacidad de información hasta 2.7GB/s
 - La frecuencia de compás del motor 3D de 166MHz
- Acelerador gráfico 2D
 - Mando incorporado de hardware
 - Soporta memoria-mapped, estadía de cero, motor de grabación embarazoso
 - Buffer de al máximo 128MB frames con la dirección lineal

Características de Audio En Tablero

- AC'97 2.2 extensión complaciente codec
- Soporta DirectSound de Microsoft® / DirectSound 3D de Microsoft®
- AC'97 soporta full duplex, independiente frecuencia de muestreo convertido por audio recording and playback
- Interfaz de S/PDIF-in/out
- Output auricular de 6-canal

Características de LAN Interno

- Utiliza el rápido controlador Ethernet de Phy
- IEEE 802.3, 10BASE-T y 100BASE-TX integrado de PHY compatible
- Interfaz maestro de 32-bit PCI
- Funciones de administración de energía integrado
- Soporte dúplex completo en ambos 10 y 100 Mbps
- Soporta auto negociación de IEEE 802.3u
- Soporta alambre para la administración

Interfaz SATA RAID IDE (661FX-MLV sólo)

- Permite 2 interfaz SATA (Serie ATA) la cual es compatible con la especificación SATA 1.0 (interfaz 1.5Gbps)
- RAID 0, RAID 1 y JBOD

Controlador de IDE Maestro de Bus PCI

- Soporta discos duros ATA/33, ATA/66, ATA/100 y ATA/133
- UDMA modo 3, 4, 5 y 6 ensanchado IDE (la transferencia de datos es 133MB/sec.)
- Bus mastering reduce la carga a la Unidad Central de Proceso
- Soporta ATAPI CD-ROM, LS-120 y ZIP

Procesador Zócalo

- Zócalo 478

AGP (Accelerated Graphics Port)

- Soporta AGP 8x con 2132MB/sec. y AGP 4x con 1066MB/sec. para las tarjetas 3D

Panel de Reverso de Conectores de Entrada - Salida (Conectores de PC 99 color-cifrado)

- 4 puertos de USB 2.0/1.1
- 1 puerto de RJ45 LAN
- 1 puerto de serie DB-9
- 1 puerto de VGA DB-15
- 1 puerto paralelo de DB-25
- 1 puerto de ratón PS/2 mini-DIN-6
- 1 puerto de teclado mini-DIN-6 PS/2
- 3 enchufes de audio: línea de salida, línea de entrada y mic de entrada

I/O Conectores

- 2 conectores para 4 puertos de USB 2.0/1.1 externo adicional
- 1 conector audio delantero para la salida extrema de línea y el micro
- 1 conector de CD-in audio interno
- 1 conector de S/PDIF-in/out

- 2 conectores de SATA (661FX-MLV sólo)
- 2 conectores de IDE
- 1 conector de disquete
- 2 conectores de fuente de alimentación de ATX
- 2 conectores de abanicos de CPU y chasis

Ranuras de Expansión

- 1 slot AGP
- 3 slots PCI

La Placa Imprenta

- 4 variaciones, form-factor microATX
- 24.4cm (9.6") x 20cm (7.87")

5.2 Lista de Chequeo del Paquete

El paquete del tablero de sistema contiene los siguientes artículos:

- ☒ 1 tablero de sistema
- ☒ 1 manual de usuario
- ☒ 1 cable serial ATA (661FX-MLV sólo)
- ☒ 1 cable de IDE para las unidades de ATA/33/66/100/133 IDE
- ☒ 1 cable de unidad de disquete de 34-terminales
- ☒ 1 disquette flojo SATA RAID (661FX-MLV sólo)
- ☒ 1 CD de "Mainboard Utility"

Si cualquiera de estos artículos están perdidos o dañados, favor de ponerse en contacto con su tratante o representantes de venta para la asistencia.

Äèààà 6 - Ðóññééé ýçûê

6.1 Õaðàèðáðèñðèèè è ñáí éñðàà

Ý ðí òáññí ð

- Ý ðí òáññí ð Intel® Pentium® 4 (Prescott è Northwood) äí 3.06GHz
 - Intel òáðí í ëí àèáé Hyper-Threading
 - FSB: 533MHz è 800MHz
- Ý ðí òáññí ð Intel® Celeron®
 - 400MHz ñèñðáí í äý øèí à

×èí ñàò

- SiS® chipset
 - Ñáááðí úé Ì í ñò: SiS® 661FX
 - Ðæí úé Ì í ñò: SiS® 964

Ý àí ýòù

- 2 DIMM áí áçàà Ý Ì ä 184-pin DDR SDRAM
- Ý Ì ääáðæèääàò 4 áàí ëí ä Ý àí ýòè áí 2GB Ì í äòèýì è PC1600 (DDR200), PC2100 (DDR266), PC2700 (DDR333) èèè PC3200 (DDR400) í ááóò. DDR SDRAM DIMM, 2.6V òèí à
- 16Mb, 64Mb, 128Mb, 256Mb è 512Mb SDRAM òáðí í ëí àèý ñí ñòðáí èòáé Ì ò 2KB äí 16KB

BIOS

- Award BIOS, Windows® 98SE/2000/ME/XP Plug and Play
- Ý Ì ääáðæèääàò çàððóçéó SCSI
- Flash EPROM àèý Ý áí í àèáí èý BIOS
- Ý Ì ääáðæèääàò Óóí éòèð DMI 2.0
- 2Mbit Flash Ý àí ýòù

Ýí áðáí Ì è+í úé Äèçæí

- ACPI STR (Suspend to RAM)
- Äèèèèçàòèý Ì à Áàèæáí èà Ì úòè

- Αεθεαεαοεϋ ι α ι αααοεα Ει ι ι ι ε USB Εεααεαοοοι
- Αεθεαεαοεϋ ι α Αοι αϋαεε Για ι ι ε
- Αεθεαεαοεϋ ι α Νάααι α Νι αυοεα
- RTC Οαει αο αεϋ Αεεϐ-αι εϋ Νενοαι ι
- Νεα-εε ι αι οϋααί εϋ

Âñòďî áí í ûă Ôóí êöèè Ăďàôèèè

- Àe-í ài ðààéí í ày 16-àèòí ày øèí à
- Í òí òí ònéí ày ñí òí ñí áí í òòú 1GB/s á ðàæèí á 133MHz x 4
- 3D àðàðè÷-àñèéé òñéí ðèòàèù
 - Àñòòí áí í úé àùñí èí í ðí èçáí àèòàèúí úé 256-àèòí úé 3D ààèæí è
 - Í í áààðæèààò Ultra-AGP II™ ñ í òí òí ònéí í è ñí òí ñí áí í òòú ðí áí 2.7GB/s
 - Øàèòí àáy ÷-àñòí òà 3D ààèæèà 166MHz
- 2D àðàðè÷-àñèéé òñéí ðèòàèù
 - Àñòòí áí í ày àí òí àðàòí ày èí í àí àà
 - Í í áààðæèààò í àí òí èòí ááí í óð í àí yòu, í óèáí è í ðí òí è, ààèæí è í èèí áí è çàí èñè
 - Í àèñèí àèúí úé áóòàð òðàéí í á 128MB ñ èèí àéí í è áàðàñàèè

Âñòõî áí í ùé Çáoê

- Ðàñøèðàí í Úé êî ààê AC'97 2.2 S/PDIF
- Í ããðæääò Microsoft® DirectSound / DirectSound 3D
- AC'97 ï ããðæääâðñ ñ ï êí áóí èäñí ùì ,
í âçàèñè ùì êí í áãðòí òí ì -àñòí òù äëý çàì èñè è
ï òí èãðááí ëý çáoëä
- S/PDIF-in/out
- 6-è èáí àëuí úé çáóéí áí è áúòí ä

Âñòďî áí í ûă ñăòăăûă ôóí êöèè

- Áúñòðúé Ethernet éí í ðòí èéàð Phy
- Áñòðí áí í úé éí ðàððáéñ IEEE 802.3, 10BASE-T è 100BASE-TX ñí àí àñòèí úé PHY
- éí ðàððáéñ í àñòð 32-bit PCI
- Áñòðí áí í úà ðóí èòèé óí ðàáéáí èý í èòáí èàí
- Í í éí í áóí èáéní áý í í ááàðèèà í à 10 è 100 Mbps

Dóññèé

- Í í áääðæääåð IEEE 802.3u auto-negotiation
- Ðaáf àà +áðâç øí óð óí ðàæáí èý

IDE Ëí ðaððóáéñ SATA RAID (ðí èüèí 661FX-MLV)

- Í í áääðæääåð í æèí èí ðaððóáéñ SATA (Serial ATA), ñí àí àñòèì úé ñí ñí áòèðèèàòèéé SATA 1.0
- RAID 0, RAID 1 è JBOD

Ëí í ððí èèáð PCI IDE Ì àñðáð Øèí ù

- Í í áääðæääåð æáñòèèá æèñèè ATA/33, ATA/66, ATA/100 è ATA/133
- UDMA Mode 3, 4, 5 è 6 Ðàñðèðáí í úé IDE (ñèí ðí ñòù í áðáàà+è áaí í úó áí 133Ì Á/ñáè.)
- Ì àñðáðèí à øèí ù ñí èæáð í áððóçéó í à óaí ððæúí úé í ðí óáññí ð
- Í í áääðæääåð ATAPI CD-ROM, LS-120 è ZIP

æèí ñáð Socket

- Socket 478

AGP (Accelerated Graphics Port)

- AGP 8x (2132MB/ñáè) è AGP 4x (1066MB/ñáè)

Í í ðòù Áaí àà/Áuaí àà (I/O) çáaí áé í áí áèè

- 4 USB 2.0/1.1 í í ðòà
- 1 RJ45 LAN í í ðò
- 1 DB-9 í í ðòà
- 1 DB-15 VGA í í ðòà
- 1 DB-25 í áðæéæúí úé í í ðò
- 1 Ì èí è-DIN-6 PS/2 í í ðò æý Ì úøè
- 1 Ì èí è-DIN-6 PS/2 í í ðò æý èèàèèàðððù
- 3 áí áçàà æý çáòèà: áùòí à, áòí à è Ì èèðí òí í

Ðaçúàì ù Áaí àà/Áuaí àà

- 2 Ðaçúàì æý 4-ò áí í í èí èòæúí úó áí áøí èò USB 2.0/1.1 í í ðòí á
- 1 Ðaçúàì æý áí áøí áaí èèí áéí í áí áùòí àà è Ì èèðí òí í á

- 1 δαχύαι CD-in
- 1 δαχύαι S/PDIF-in/out
- 2 SATA δαχύαι à (οί εύει 661FX-MLV)
- 2 IDE δαχύαι à
- 1 floppy δαχύαι
- 2 δαχύαι à ι εύαι εύ ATX
- Άαί οεύύοι ο ι οί οάνηι οα è ααί οεύύοι ο εί οί οηα

Νεί ού

- 1 AGP ηεί οί à
- 3 PCI ηεί οί à

Ι ά+αοί άγ ι εύαα

- 4 άαδ εύαοέ, οί οί -ό εύοι ο microATX
- 24.4ηι (9.6") x 20ηι (7.87")

6.2 Εί ι ι εύαοάοεύ

Εί ι ι εύαοάοεύ ι ι ηοάαέ ι αοάοεί ηεί é ι εύαο:

- ☒ Ι αοάοεί ηεύ ι εύαα
- ☒ Οόεί άι άηοάι ι ι εύι άαδ εύ
- ☒ Άαα ο εύάο Serial ATA (οί εύει 661FX-MLV)
- ☒ Ι άεί IDE ο εύάο άεύ άάηόέο
- ☒ Ι άεί 34-pin ο εύάο άεύ άέηεί άι άα
- ☒ Ι άι à άέηεύαα SATA RAID (οί εύει 661FX-MLV)
- ☒ Ι άεί CD η "Mainboard Utility"

Άνέε à εί ι ι εύαα εύ γοί άι +άάι -οί ι à οάαοάο έέε +οί -οί έηι ι ο+άι ι, ι ι άεύόεύαα, ηάγ εύαοάηυ ηι ηάι εί άεύαοι έέε ι οί άαοι ι .